

No 38

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Ans Paperd March 6th 182

Inaugural Essay

on

Structure of the Uterus

For the Degree of Doctor of Medicine in the
University of
Pennsylvania.

By Lynch H. Deas
of Charleston
S^c 6th

January 2^d 1828

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On Stricture in the Urethra

In compliance with a regulation of this Institution requiring each Medical Student to offer a Thesis on some medical or surgical subject before graduating I submit the following on Stricture in the Urethra. I have selected this subject being one which I have seen several cases of while studying under my preceptor Dr. B. B. Simons by whose polite indulgence and under whose inspection I had an opportunity frequently of introducing the Bougie and the Catheter. Tho there was nothing remarkable in any of the cases still it gave me an opportunity of seeing a great deal which I should have been obliged to take upon the operation of another. I am indebted for my remarks principally to the works of Sir E. Home and Mr. Wingham. — It will be necessary to consider the nature Causes Symptoms and Treatment of the disease in its

The objection in the first
of my friends with a reputation of
being a man of great talents and
of high standing in the world
to offer a third or some method
of his own for the relief of the
suffering poor in the city of
London. This plan was not
less than a hundred times
discussed and debated in the
Council of the Society of
Friends. It was at last
decided that the plan should
be carried out. The first
step was to form a committee
of the Society to look into
the matter. This committee
was formed in the year 1793.
The first meeting of the
committee was held on the
1st of January 1794. The
committee was composed of
the following members:
Messrs. [names] and
[names]. The committee
was charged with the duty
of making a report to the
Society on the state of the
poor in the city of London.
The committee has since
that time been engaged in
this important work. It has
held many meetings and
has made many reports to
the Society. The Society has
been very anxious to hear
from the committee and has
received many of its reports
with great interest. The
Society has also been very
anxious to see the committee
in person and has done so
on many occasions. The
committee has been very
successful in its work and
has made many valuable
contributions to the relief
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different stages. - In the first place The Nature
of the Membrane of the Urethra. It has been a sub-
ject of much discussion and is not yet determi-
ned whether this membrane be muscular or not.
Mr. Hunter and Sir E. Home are of opinion that
it is muscular; Mr. Charles Bell, Mr. Shaw and
others that it is not. Certain it is that the Urethra
enlarges in the passage of the Urine and contracts
in the ejection of the Semen; also any one who
introduces a bougie often will be at times be-
sensible of so powerful a contraction around it
as to prevent its passing on without injury to
the parts. Whether this contraction be owing to
muscularity in the membrane of the Urethra
or to the muscles surrounding the penis is un-
certain; but as the determination of this point
is not important to the consideration of the sub-
ject I shall leave it and go on to consider The
Formation of Strictures. This membrane of the

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Urethra like all other structures which either are muscular, or under the influence of muscularity is liable to ^{spasmodic} contractions. Sir E. Home remarks if upon the removal of the spasm the canal assumes its natural shape it is called simple spasmodic stricture; but if after the removal of the spasm it does not assume its natural form it constitutes a permanent stricture. A permanent stricture tho not necessarily may also be spasmodic whether ~~separate or combined~~ ^{whether separate or combined} it may be defined as a contraction of the transverse fibres of the membrane which forms that canal. Sir E. Home has been particular in ascertaining the dimensions of the Urethra from which he has adduced the following fact that the parts of the Urethra most liable to stricture are those which are naturally the smallest, these are at 7 inches which is just behind the bulb, next in frequency 4 1/2 inches from the orifice of the gland

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sometimes 3 or 4 near the external orifice and some-
times even the orifice itself is the seat of Stricture.
Strictures vary in their appearance and number
the most frequent and simple is that described
by authors as having the appearance of a pack
thread tied around that part of the canal. Sometimes
there is only one or two strictures in different parts
of the canal, sometimes a series of strictures one
after the other forming an irregular contraction
in that part of the canal. This last is a very difficult
kind to treat. The Causes of Stricture. Strictures
are said to arise from Gonorrhoea. Mr. Hunter thought
they never arose from this cause. Sir J. Cooper
says 99 cases out of 100 arise from neglected gon-
orrhoea. Astringent injections ~~are sometimes~~ mentioned
as a cause of Stricture. Mr. Hunter did not think
this a cause of Stricture either, however I believe
most ~~modern~~ surgeons suppose gonorrhoea venereal
and astringent injections to be three of the most

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frequent causes of stricture. Protracting the act of coition; or an excessive frequent indulgence in it are causes of stricture. These acts bring on spasmodic contraction and in that way produce strictures. Mr. Bingham says spasmodic strictures almost always precede permanent ones. Stone in the bladder; diseased prostate gland; a blow in the perineum, or in short any thing which produces great irritation in the Urethra may be a cause of stricture. Some of the above mentioned causes are frequently an effect of strictures and sometimes independent diseases which are confounded with strictures, but on one particularly of this when mentioning diseases which are frequently mistaken for stricture. It may be mentioned here that some constitutions are naturally predisposed to strictures so that they may arise at a very early age from the slightest exciting cause.

Symptoms of Stricture. Symptoms of Stricture

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are both local and constitutional. First, The Local Symptoms. The only symptom mentioned in the commencement of the disease is a diminution in the stream of urine which is not generally very perceptible, so that the disease may exist some time without the knowledge of the person and the first marking which he gets is a difficulty in passing the Urine. As the disease advances new and more evident symptoms are perceived. The Urine is voided more frequently, does not pass without considerable effort and some pain; there is an effort to eject the last drops of urine and some straining after they are voided, nocturnal emissions; a slight discharge from the urethra, which is increased by catching cold to which patients labouring under stricture are peculiarly liable. In any sudden change from heat to cold the urine is either entirely suppressed or passes only in drops. W. Bingham

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has also mentioned as a symptom of Stricture shooting pains in the perineum in the glands penis, around the loins and down the thighs. Also in stricture the Urine splits and passes out in a forked stream. The Constitutional symptoms of Stricture. The most common symptom of this kind is a complete paroxysm of fever and ague. The cold fit is extremely severe, this is followed by the hot stage, after which there is a profuse perspiration. Sir E. Home remarks, that this attack differs from the common fever and ague in the profuse stage of the perspiration the fits do not return periodically and seldom more than twice. A disordered state of the Stomach is a frequent constitutional symptom of Stricture: it has been remarked that this state of the Stomach has not yielded to medicines but has got well on the removal of the Stricture.

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Diseases whose symptoms resemble those of Stricture. Sir
E. Home says that inflammation of the Urethra
from Gonorrhoea frequently puts on all the symp-
-toms of Stricture, even a difficulty in passing
the Urine, and diminution in the size of the
stream; but he remarks this difference that before
all the Urine is voided the difficulty goes off and
the stream assumes its natural size which is
not the case in Stricture. He also remarks that
an irritable state of the Bladder from the sym-
-p-athy which exists between it and the Urethra
produces a spasmodic contraction in that canal
which may be mistaken for Stricture. A diseased
state of the Prostate gland is frequently mistaken
for Stricture. Sir E. Home remarks that when
the Prostate gland is enlarged it projects into
the neck of the Bladder and it is from this circum-
-stances that it is so often mistaken for Stricture.
This enlarged state of the Prostate may be detected

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by passing the finger into the rectum and feeling it. Tho by the above symptoms we may generally be pretty certain when a stricture is present, we should not determine positively before passing the bougie. — Treatment of Strictures. —

"To effect a cure in this disease means an employe with two intentions, either to bring the contracted part back to its original state which is done mechanically by the use of the bougie, or to destroy the obstruction for which the Caustic is used." There is a third mode of treatment, revived and practiced by Dr. Physick, that of dividing the stricture by a stile. Each of the above modes of treating strictures shall be separately considered; but I would first make a few remarks on the Treatment of Spasmodic Strictures. The usual mode of treating Spasmodic Strictures is by means of blood letting, opiates and the warm bath. Mr. Syrrall speaks of using the belladonna

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with great success in cases of spasmodic Stricture.
He arms the bougie with the belladonna in the
same way that a bougie is armed with caustic
and introduces it into the Urethra as far as the
obstruction. Mr. Glue has succeeded with the
Muriated Tincture of Iron when every other means
has been unsuccessful; he gave 5 or 10 drops every
2 or 3 hours. Mr. Pea discovered that the cold bath
might be used with decided advantage; the idea
occurred to him from the circumstance of the con-
tents of his bladder being always expelled upon
emersion in cold water. I will now consider
the treatment of Permanent Strictures, and first:
By the Bougie alone. Before considering the
use of the bougie I would remark that there
are four varieties of this instrument, the plaister,
the catgut, the flexible gum, and the metallic,
each of which have their advocates. The mode of
introducing the bougie. The best directions for

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introducing the bougie are perhaps given by Mr. Bingham. He says: "If bougies are intended to be introduced beyond the bulb of the Urethra they should be turned up at the end so as to give it a direction upwards after it passes the bulb. Having warmed, oiled and bent the end of the bougie, take hold of the penis just behind the corona glandis between two of the fingers in such a manner as not to compress the Urethra then elevating the penis to such an angle as it would assume in a state of erection introduce the bougie and pass it on gradually until it enters the bulb then depress the hand so as to allow it to enter the membranous part of the canal and pass it on into the bladder". Mr. Bingham further observes that too small a bougie ought not to be used as it is apt to hitch in the lacuna and gather a fold of the Urethra before its point

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and in that way a false passage is apt to be
formed. Cure of Strictures by the bougie alone.
Sir E Home observes that in the early stage
of Stricture when the Urethra is not much
irritated, the bougie may be used with advan-
tage, and if the stricture by this means can be
dilated to the natural size of the canal in a
few weeks, a cure can be effected. The only fear
he says under these circumstances is that as
the bougie acts purely mechanically, it will
not take away the disposition in the part to
form Strictures and the disease is apt to return.
So that it is important that the use of the bougie
should be continued some time after the Urethra
has obtained its natural shape, so as to take
off as much as possible the disposition in the
part to contract. It is also important that ^{the} size
of the bougie should be very gradually increased.
The time of keeping in the bougie and the

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frequency of applying it must entirely depend upon the constitution and feelings of the patient. Mr. Bingham never keeps the bougie more than 5 or 10 minutes in the Urethra at the commencements and repeats this every third day. After a time when the Urethra becomes more familiarized to its use it may be repeated oftener. Before entering on the treatment of strictures by caustic I would make a few general remarks. Wiseman is said to have been the first who suggested the idea of using caustic in the cure of strictures, but that he mentioned no case treated with it by himself or any one of his day so that Mr. Hunter who brought it into practice deserves all the credit that ^{the discovery of} so valuable a remedy claims. But it remained for Sir E. Home by his enthusiastic endeavours to enlighten and benefit mankind by its general introduction into practice. Mr. Hunter made use of

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the caustic only with the intention of destroying the part which obstructed the passage of the Urine. Sir E. Home used it also for the purpose of allaying the irritability of strictures as well as destroying the obstruction. He mentions several cases where the Urethra has been so irritable as to prevent the use of bougies but has yielded to the application of caustic. Previous to the use of caustic it was frequently necessary to lay open the diseased urethra and pass a flexible catheter through the divided parts into the bladder, and even portions of the diseased Urethra have been dissected out. The above operations however even at the present day in particular cases are resorted to with great advantage. Mode of applying Caustic to Strictures. The instrument which Mr. Hunter first made use of was a silver cannula and stile at the end of which a piece of gum

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caustic the shape of a pencil was fixed, this was gently pushed down to the stricture against which it was pressed as long a time as was thought proper after which the caustic being protected by the canula, the whole was withdrawn. This mode of applying the caustic Mr. Hunter soon found liable to several objections; one was that a silver canula could not adapt itself to the flexible state of the urethra, so that when the ~~canula~~ ^{canula} is forced the caustic is apt to burn the side of the urethra or to make an oblique ripper through the stricture. Another objection is that from the unyielding nature of the canula it is apt to produce great irritation in the urethra. An improvement on the above mode of applying the caustic soon suggested itself and was adopted by Mr. Hunter, it was by means of an armed bougie ^{not} it was used as follows.

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Take a bougie of such a size as may be readily passed down to the stricture having inserted in the end of it a piece of lunar caustic permit it to remain in contact with the stricture a sufficiently long time which must be regulated by the feelings of the patient. This mode of applying the bougie was found objectionable as the caustic was apt to fall out and injure a healthy part. Mr. Poff a dealer in bougies discovered a mode of securing the caustic which is described as follows. In making the bougie a piece of wire is inserted in the end of it to the depth that you wish the caustic to reach, this wire is withdrawn while the bougie is warm and the caustic is inserted in its place so that upon cooling it is cemented to the sides of the bougie which in a great measure prevents the danger of its falling out. There is a third mode of applying the caustic to strictures

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which appears to remedy the disadvantages while it combines the advantages of both the above mentioned modes. It is by means of flexible gum cannula through which a bougie is passed, this method allows us to apply the caustic in powder or in the form of ointment without injury to the healthy part of the urethra, this is done by putting some of it on the point of the bougie and passing it through the cannula down to the stricture, or putting some of it in the end of the cannula and passing the bougie down to and pushing the caustic before it against the stricture. Mr. Howard was the first who recommended the use of caustic in powder and made up into ointment. It must not be neglected previous to the application of the caustic always to ascertain as near as possible the shape and depth of the stricture by means of a soft wax bougie. I will now consider

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briefly the use of the different kinds of caustic
and the symptoms produced by caustic in the
progress of the cure. Of the *Argentum Nitratum*.
This is the only application mentioned by Mr. Hunter
and Sir E. Home as having been used by them.
The success of Sir E. Home in the treatment
of Stricture speaks a great deal in favor of
this remedy. After a bougie has once passed
through the stricture Mr. Bingham then
recommends the *Argentum Nitratum* in
the form of ointment. Of the *Kali Purum*
Mr. Whately was the first who introduced the
use of the *Kali Purum*. His mode of applying
it was by inserting a piece of caustic about
the size of a pin's head in the point of the
bougie. This mode is objectionable for reasons
already mentioned. The most general mode
of using it is in powder. It is difficult to say
the particular cases to which this or the

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Argentum Nitratum are applicable; it is however sufficient to know that each have been successfully used, and that one may succeed where the other has failed of the Potassa rub Carbonas. The use of this remedy was introduced by Mr. Bingham, he says "Being persuaded that when the Kali Purum acted beneficially it did not produce any abrasion of the stricture, but that it merely acted by allaying irritation and exciting copious secretions from the part I was led to conclude further that if this opinion was correct, precisely the same advantage would be derived from the Potassa rub Carbonas." His experience afterwards verified his opinion. Mr. Bingham remarks that though the effects of this remedy are very much the same as those of the Kali Purum it has some advantages the Kali Purum being much more violent than it. And as there are cases

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which require great delicacy of treatment the
Potassa sub Carbonas is peculiarly adapted to such.
Even in obstinate cases it is preferable as a
much greater quantity may be used with less
risk. Mr. Bingham used this preparation in
three ways, either by introducing some of
it on the point of a bougie; or putting some
of it together with some lard in the end of the
cannula and pressing it against the stricture
by means of a bougie, or by passing an armed
bougie through the cannula. Mr. Bingham
says that the alkalis in general have the
property of lessening irritability and exciting
the absorbents when applied to any part of the
body. Of the Natron Exsiccatum. Almost
every thing which has been said of the Potassa
sub Carbonas is applicable to this remedy in the
treatment of strictures. As Mr. Bingham
mentions several cases successfully treated

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by the *Natron Exsiccatum* alone we may frequently when other applications have failed or are slow in producing a cure vary the treatment successfully by the use of this remedy. Of the *Unguentum Hydrargiri Satius*. Mr. Bingham says that he has cured six cases by this remedy. To three of these other remedies had been employed without success, but immediately improved and were finally cured under the use of this remedy. It may not be altogether out of place to mention that Mr. Bingham has used it successfully in obstinate cases of gleet, also in Phymosis. The usual mode of applying it is by smearing some of it on the end of a tongue and passing it through the stricture. Mr. Bingham appears to give a preference to this remedy in the treatment of strictures, how far this opinion is correct further experience will have to prove. Perhaps his preference is in

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some measure arising to the remedy being new
with himself. - Having mentioned as far as I
know all the substances that have been made
use of in the treatment of strictures, I shall
now mention some of the symptoms noticed
by Sir E. Home as being produced by caustic in
the progress of the cure. The sensations from the
application of caustic are heat and smartings
in the part, this pain is felt some time after
the application of the caustic; the duration
varies in different persons. There is frequently
hemorrhage from the part to which the
caustic has been applied. Sir E. Home says
that this has not generally been found attended
by bad consequences. Another effect arising from
the use of caustic is a fit of fever and ague
Sir E. Home says that this often comes on after
a stricture of long standing has been destroyed.
- 27. The only treatment he advises in these cases

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is opening medicines. The above symptoms are
he observes are frequently so severe after each ap-
plication of the caustic as entirely to prevent
its use. In some cases of obdurate strictures
also, from the frequency of applying the caustic
such irritability has been brought on in the
urethra as to prevent its use. It is probably
from such symptoms as these, and from the
danger of making false passages that some
surgeons have been averse to the use of caustic
in the treatment of strictures. - I am air now
to mention the third and last, though not per-
haps the least effectual mode of treating stric-
tures, viz, division by the stile as performed by
Dr. Physick. The instrument made use of by
Dr. Physick is a sort of lancet concealed in a
canula that may be pushed forward or retrosac-
ted at pleasure. That this instrument is pecu-
liarly adapted to certain cases, we do not want

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the evidence of some of our most eminent Sur-
geons. Dr. Gibson after mentioning the success
with which this instrument has been, and
continues to be used in the hands of Dr. Thacker
says "I myself have likewise succeeded in a great
many cases, in effecting a perfect cure after bougies
caustic and other means had entirely failed. Before
the clinical class in the Army house infir-
mary a few years ago, I perforated with the
stylet a stricture of many years standing near
the bulb, which had resisted for several years
the united efforts of several surgeons to intro-
duce an instrument of any description into
the bladder. In three minutes after the divi-
sion of the stricture a catheter entered and the
patient experienced the greatest & visible relief."
After having mentioned the above case it would
be needless for one to advance any thing further
in support of the utility of this mode of treating

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strictures. I believe I have mentioned all the various modes of treating strictures, unless perhaps some peculiarities of the French Surgeons which I have not had an opportunity of seeing described. Before concluding this subject I would make a few remarks on some of the consequences of strictures. One of the consequences of stricture says Mr. Tyrrell is an extravasation of Urine into the Perineum; the Urethra gives way and the Urine finds its way into the Perineum Scrotum and interstices of the Penis. He says the operation for the relief of this complaint consists in the division of the stricture, and an incision is made in the raphe directly on it. The stricture is then divided from above downwards and immediately the Urine gushes out. Mr. Tyrrell has performed this operation frequently without difficulty and with success. He says there is a paper lately out by Mr. Shaw of London, in which the division of strictures is recommended in preference to the caustic. As I have not seen

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if I can say anything about it. An enlarged testicle is mentioned as existing frequently in consequence of strictures, arising from a sympathy which exists between it and the Urethra, and is only cured upon the removal of the stricture. Fistula in Perineo is another frequent consequence of strictures, though perhaps of tenor from neglect in the treatment of strictures. Hydroceles are also mentioned by Sir E. Home as arising from strictures and to be cured upon the removal of the stricture. I would finally remark on the authority of Sir E. Home that there are many constitutional diseases arising from strictures in the Urethra and which have been ~~un~~successfully treated by the remedies usual in such cases, considering it as an independent disease, but have been cured upon the removal of the ~~disease~~ stricture which was the cause, proving the disease to have been merely a sympathetic one. —

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Mem

P.L.